



Introducing the aroSTOR domestic hot water heat pump

Vaillant is the leading premium brand for sustainable and responsible system solutions, ensuring your customers experience comfort for their home. Our products have high energy efficiency ratings and low emissions, with an enviable reputation for performance, quality and reliability.

Introducing the domestic hot water heat pump with natural refrigerant: The aroSTOR

The new aroSTOR range of domestic hot water heat pump, 270 litre model. It is perfect for the additional hot water requirements in larger homes or small businesses where there is high hot water demand.

This new Vaillant heat pump is incredibly efficient and sustainable, using thermal energy can be collected via an external air duct, or it can recycle hot air from within the room where it's installed, provided there is sufficient ventilation. The only other energy needed is the electricity to run the appliance.



The aroSTOR heat pump benefits at a glance:

- Domestic hot water comfort for up to six people. 270L 5-6 people
- Highly energy efficient and reliable. COP of >3.2, ErP label of A+
- High Quality Material components / low maintenance. Stainless steel tank: 5 warranty, Other components: 2 years
- Extremely quiet operation. Advanced insulation and use of rubber on compressor. Volume: 48 dB, Sound pressure level (1m): 36 dB
- Hot water on demand (Hot water comfort). Self-managing hot water with electrical backup heater and legionella protection.
- No additional measurements required on site. A completely standalone hot water solution
- 1.2kW titanium electrical back-up heater. Titanium is a more corrosion resistant and more resistant to calcium build-up
- Easy transportation. The aroSTOR is top heavy, so we deliver it in a strong bag.
- Easy positioning (63 cm diameter, 20% weight reduction)
- Uses the environmentally friendly refrigerant R290 (150 gr)
- Thanks to the additional pipe coil, it is possible to also connect an additional heat generator such as gas-fired boilers or solid-fuel boiler.
- Control: Comes with integrated control

Controls

aroSTOR heat pumps come with their own control fixed to the unit. This is a simple turn dial and push button control that has been specially designed for the aroSTOR.



Natural refrigerant

Vaillant's aroSTOR heat pumps use only R290 natural refrigerant. This is the refrigerant used in everyday household appliances such as domestic fridge freezers. The use of this refrigerant means that the aroSTOR is future-proof, being already compliant with the Montreal and Kyoto protocols. These were introduced to combat global warming by banning the use of chemical refrigerants such as the chlorine and fluorine compounds known as CFCs and HFCs. The use of this refrigerant also complies with F-Gas regulation, the Europe-wide strategy to phase-out the use of fluorine based refrigerants by 2030.

The use of R290 means the aroSTOR has an incredibly low Global warming Potential (GWP) of just three and an Ozone Depletion Potential (ODP) of zero. R290 gives excellent performance for water heating. It is able to deliver 60° in the cylinder without any need for a back-up heater, whilst still providing strong efficiency levels.

Eco-friendly DHW solution

Most eco-friendly hot water solution with high energy efficiency to reduce the bill for hot water generation significantly.

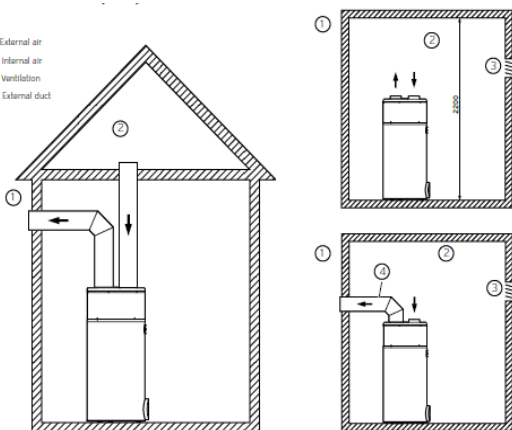
The new aroSTOR range offers a wide range of products to fulfil the customer requirements in terms of DHW comfort. As most energy efficient water solution Vaillant offers a sustainable hot water product and in the same time contributes to the environmental goals already today by using natural refrigerants.

As an DHW HP the aroSTOR wins energy for efficient hot water generation from ambient or outside air. With R290 refrigerant the aroSTOR today fulfils already the upcoming flu-gas regulations and contributes to the worldwide environmental goals.

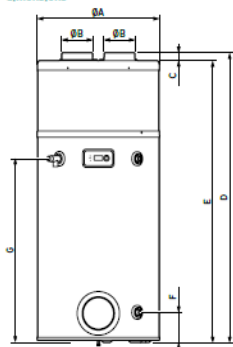
Dimension and connections

aroSTOR heat pump 270 litres

- 1. External air
- 2. Internal air
- 3. Ventilation
- 4. External duct



Product dimensions and connection dimensions



Unit dimensions and connection dimensions

	aroSTOR 270 litre
A	634mm
B	158mm
C	40mm
D	1,783mm
E	1,743 mm
F	151 mm
G	1,249

Technical Data

	aroSTOR 270 litre
General	
Nominal capacity	270 l
Outer diameter	634 mm
Height	1,783 mm
Weight (when empty)	68 kg
Weight (filled)	338 kg
Cylinder material	Stainless steel
Heat insulation	Polyurethane foam 50 mm
Type of electric water	Immersion / Ti
Thermal losses 55°	1.77 kW/ 24h
DHW temperature range (HP only)	30 to 60°C
Max. Temperature of DHW HP inlet domestic water	70°
Maximum pressure	6 bar
Max. Hot water temperature (hp + back up heater)	65° C
Electrical Specifications	
Max. Power consumption (HP + back up heater)	1990 watts
Max power consumption (HP only)	700 watts
Voltage and frequency of products supply	230v - 50 Hz
Max amperage of the power supply circuit	8 amp
IP rating	IPX 4
Nominal heat output of the electric backup heater	1.2 kW
Specifications for the heat pump (in accordance with EN 16147:207	
Refrigerant type	R 290
Minimum and maximum air temperatures	-7 to 45° C
Sound power level	52dB
Coefficient of performance	3,14
ErP rating (A+ -F)	A+
Seasonal efficiency	130%

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Vaillant: aroSTOR

For all who are looking to build future.



aroSTOR floor standing domestic hot water heat pump

